BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work:
Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in ward no.6 Byatrayanapura Sub Division

1ST& FINAL BILL

PRE-MEASUREMENT

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

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Pre- Measurements

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

ode :- 006-18-000033

of Agency :- M/S Sathya constructions.

) :- 1st and final bill

Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in

o.6 Byatrayanapura Sub Division

No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded on KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
	DESILT										
	Defence Layout										
	1st cross										
	LHS										
	0.00	15		1	15.00			0.70	0.50	5.25	
	15.00	30.00		1	15.00			0.70	0.50	5.25	
	30.00	45.00		1	15.00			0.70	0.50	5.25	
	45.00	60.00		1	15.00			0.70	0.50	5.25	
	60.00	75.00		1	15.00			0.70	0.50	5.25	
	75.00	90.00		1	15.00			0.70	0.50	5.25	
	90.00	106.50		1	16.50			0.70	0.50	5.78	
	2nd cross										
	LHS										
	0.00	15.00		1	15.00			0.60	0.50	4.50	
	15.00	30.00		1	15.00			0.60	0.50	4.50	
	30.00	45.00		1	15.00			0.60	0.50	4.50	
	45.00	60.00		1	15.00			0.60	0.50	4.50	
	60.00	75.00		1	15.00			0.60	0.50	4.50	
	75.00	90.00		1	15.00			0.60	0.50	4.50	
	90.00	101.00		1	11.00			0.60	0.50	3.30	
	3rd A cross Road										
	0.00	15.00		1	15.00			0.60	0.50	4.50	
	15.00	30.00		1	15.00			0.60	0.50	4.50	
	30.00	45.00		1	15.00			0.60	0.50	4.50	
	45.00	61.50		1	16.50			0.60	0.50	4.95	
	bharathnagar 2nd main road										
	LHS										
	0.00	15.00		1	15.00			0.60	0.50	4.50	
	15.00	30.00		1	15.00			0.60	0.50	4.50	
	30.00	45.00		1	15.00			0.60	0.50	4.50	
	45.00	60.00		1	15.00			0.60	0.50	4.50	
	60.00	75.00		1	15.00			0.60	0.50	4.50	
	75.00	90.00		1	15.00			0.60	0.50	4.50	

Consultant

09/10/2019

Executive Engineer

Scanned by CamScanner

Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in No.6 Byatrayanapura Sub Division

No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded on										
	90.00	105.00		1	15.00			0.60	0.50	4.50	
	105.00	120.00		1	15.00			0.60	0.50	4.50	
	RHS										
	0.00	15.00		1	15.00			0.60	0.60	5.40	
	15.00	30.00		1	15.00			0.60	0.60	5.40	
	30.00	45.00		1	15.00			0.60	0.60	5.40	
	45.00	60.00		1	15.00			0.60	0.60	5.40	
	60.00	75.00		1	15.00			0.60	0.60	5.40	
	75.00	90.00		1	15.00			0.60	0.60	5.40	
	90.00	105.00		1	15.00			0.60	0.50	4.50	
	105.00	120.00		1	15.00			0.60	0.55	4.95	
	bharathnagar 5th cross road										
	LHS										
	0.00	15.00		1	15.00			0.60	0.50	4.50	
	15.00	30.00		1	15.00			0.60	0.50	4.50	
	30.00	45.00		1	15.00			0.60	0.50	4.50	
	45.00	60.00		1	15.00			0.60	0.50	4.50	
	60.00	75.00		1	15.00			0.60	0.50	4.50	
	75.00	90.00		1	15.00			0.60	0.50	4.50	
	90.00	105.00		1	15.00			0.60	0.50	4.50	
	105.00	120.00		1	15.00			0.60	0.50	4.50	
	120.00	135.00		1	15.00			0.60	0.50	4.50	
	135.00	150.00		1	15.00			0.60	0.50	4.50	
	150.00	165.00		1	15.00			0.60	0.50	4.50	
	165.00	180.00		1	15.00			0.60	0.50	4.50	
	180.00	195.00		1	15.00			0.60	0.50	4.50	
	195.00	210.00		1	15.00			0.60	0.50	4.50	
	RHS										
	0.00	15.00		1	15.00			0.60	0.50	4.50	
	15.00	30.00		1	15.00			0.60	0.50	4.50	
	30.00	45.00		1	15.00			0.60	0.50	4.50	
	45.00	60.00		1	15.00			0.60	0.50	4.50	
	60.00	75.00		1	15.00			0.60	0.50	4.50	
	75.00	90.00		1	15.00			0.60	0.50	4.50	
	90.00	105.00		1	15.00			0.60	0.50	4.50	
	105.00	120.00		1	15.00			0.60	0.50	4.50	
	120.00	135.00		1	15.00			0.60	0.50	4.50	
	135.00	150.00		1	15.00			0.60	0.50	4.50	
	150.00	165.00		1	15.00			0.60	0.50	4.50	
	165.00	180.00		1	15.00			0.60	0.50	4.50	
	180.00	195.00		1	15.00			0.60	0.50	4.50	
	195.00	210.00		1	15.00			0.60	0.50	4.50	
	Culvert Desilt										

Consultant

Assistant Engineer

Assistant Executive Engineer

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Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in no.6 Byatrayanapura Sub Division

Q No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded on									
	Fatima layout		1	6.00			2.00	0.95	11.40	
	Fatima layout		1	6.00			2.00	0.95	11.40	
								Total Qty	312.68	
							Quantity Ltd to		307.41	Cum

Consultant

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in no.6 Byatrayanapura Sub Division

Q No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded on										
	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)										
	Defence Layout										
	1st cross										
	LHS										
	68.00	83.00		1	15.00			1.80		27.00	
	83.00	98.00		1	15.00			1.80		27.00	
	98.00	106.50		1	8.50			1.80		15.30	
	Cross Road(Paralell to 1st cross road)										
	0.00	15.00		1	15.00			1.80		27.00	
	15.00	30.00		1	15.00			1.80		27.00	
	30.00	45.00		1	15.00			1.80		27.00	
	45.00	60.00		1	15.00			1.80		27.00	
	60.00	75.00		1	15.00			1.80		27.00	
	75.00	90.00		1	15.00			1.80		27.00	
	90.00	105.00		1	15.00			1.80		27.00	
	105.00	119.00		1	14.00			1.80		25.20	
	2nd cross										
	LHS										
	30.00	45.00		1	15.00			1.35		20.25	
	45.00	60.00		1	15.00			1.35		20.25	
	60.00	75.00		1	15.00			1.35		20.25	
	75.00	90.00		1	15.00			1.35		20.25	
	90.00	102.00		1	12.00			1.35		16.20	
	3rd A cross Road										
	LHS										
	19.00	34.00		1	15.00			1.35		20.25	
	34.00	49.00		1	15.00			1.35		20.25	
	49.00	61.50		1	12.50			1.35		16.88	
	bharathnagar 5th cross road										
	LHS										
	100.00	115.00		1	15.00			1.35		20.25	
	115.00	130.00		1	15.00			1.35		20.25	
	130.00	145.00		1	15.00			1.35		20.25	
	145.00	160.00		1	15.00			1.35		20.25	
	160.00	175.00		1	15.00			1.35		20.25	
	175.00	190.00		1	15.00			1.35		20.25	
	190.00	205.00		1	15.00			1.35		20.25	
	205.00	210.00		1	5.00			1.35		6.75	
	RHS										
	100.00	115.00		1	15.00			1.35		20.25	
	115.00	130.00		1	15.00			1.35		20.25	

C & FC
14/10/2019

Consultant

Assistant Engineer 14/10/2019

Assistant Executive Engineer 14/10/2019

Scanned by CamScanner

Pre- Measurements

Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in no.6 Byatrayanapura Sub Division

BQ No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded on										
	130.00	145.00		1	15.00			1.35		20.25	
	145.00	160.00		1	15.00			1.35		20.25	
	160.00	175.00		1	15.00			1.35		20.25	
	175.00	190.00		1	15.00			1.35		20.25	
	190.00	205.00		1	15.00			1.35		20.25	
	205.00	210.00		1	5.00			1.35		6.75	
	bharathnagar 2nd main road										
	LHS										
	60.00	75.00		1	15.00			1.35		20.25	
	75.00	90.00		1	15.00			1.35		20.25	
	90.00	105.00		1	15.00			1.35		20.25	
	105.00	120.00		1	15.00			1.35		20.25	
	RHS										
	0.00	15.00		1	15.00			1.35		20.25	
	15.00	30.00		1	15.00			1.35		20.25	
	30.00	45.00		1	15.00			1.35		20.25	
	45.00	60.00		1	15.00			1.35		20.25	
	60.00	75.00		1	15.00			1.35		20.25	
	75.00	90.00		1	15.00			1.35		20.25	
	90.00	105.00		1	15.00			1.35		20.25	
	105.00	120.00		1	15.00			1.35		20.25	
									Total Qty	972.00	sqm

14/10/2019

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEJUS CONSULTANTS

Consultant

14/10/2019
Assistant Engineer
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

14/10/2019
Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Of work :- Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in ...b Byatrayanapura Sub Division

Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Measurement Recorded on										
Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc.. Complete. 7.5cms thick (P.No.25, I No.5.31.1 of PW, P&IWTD SR 2016-17)										
Defence Layout										
1st cross										
0.00	15.00		1	15.00			1.80		27.00	
15.00	30.00		1	15.00			1.80		27.00	
30.00	45.00		1	15.00			1.80		27.00	
45.00	60.00		1	15.00			1.80		27.00	
60.00	68.00		1	8.00			1.80		14.40	
2nd cross										
0.00	15.00		1	15.00			1.35		20.25	
15.00	30.00		1	15.00			1.35		20.25	
3rd A cross Road										
0.00	19.00		1	19.00			1.35		25.65	
bharathnagar 5th cross road										
LHS										
0.00	15.00		1	15.00			1.35		20.25	
15.00	30.00		1	15.00			1.35		20.25	
30.00	45.00		1	15.00			1.35		20.25	
45.00	60.00		1	15.00			1.35		20.25	
60.00	75.00		1	15.00			1.35		20.25	
75.00	90.00		1	15.00			1.35		20.25	
90.00	100.00		1	10.00			1.35		13.50	
RHS										
0.00	15.00		1	15.00			1.35		20.25	
15.00	30.00		1	15.00			1.35		20.25	
30.00	45.00		1	15.00			1.35		20.25	
45.00	60.00		1	15.00			1.35		20.25	
60.00	75.00		1	15.00			1.35		20.25	
75.00	90.00		1	15.00			1.35		20.25	
90.00	100.00		1	10.00			1.35		13.50	
bharathnagar 2nd main road										
0.00	15.00		1	15.00			1.35		20.25	
15.00	30.00		1	15.00			1.35		20.25	
30.00	45.00		1	15.00			1.35		20.25	
45.00	60.00		1	15.00			1.35		20.25	
								Total Qty	539.55	Sqm

16/11/2019

Consultant

16/11/2019
Assistant Engineer

16/11/2019
Assistant Executive Engineer

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Work :- Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in Gayatrayanapura Sub Division

Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Measurement Recorded on									
KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs. with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum. machine mixed. concrete laid in layers not exceeding 15 cms. thick. well compacted. in foundation including cost of all materials. labour. HOM of machinery. curing complete as per specifications. Specification No. KBS 4.1. 4.2. (P.No.12. I.No.4.2 of PW.P&IWTD SR 2016-17)									
For New Culvert									
Fatima layout		1	7.00			2.00	0.20	2.80	
Fatima layout		1	7.00			2.00	0.20	2.80	
							Total Qty	5.60	
							Qty Limited to	5.08	Cum

18/10/2019

FEJUS CONSULTANTS

18/10/2019

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Work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in Bhatrayanapura Sub Division

Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Measurement Recorded on									
KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6. stone hammered dressed in courses not less than 20cms high. bond stones at 2m. apart in each course including cost of materaials. labour. curing complete as per specifications. Specifcation No. KBS 5.1.13.(using available stones) I/P No.23. I.No.5.6 of PW. P&IWTD S.R 2016-17)									
For New Culvert		2	7.00			0.45	0.90	5.67	
Fatima layout		2	7.00			0.45	0.90	5.67	
Fatima layout		2	5.00			0.45	0.23	1.04	
Raising of Old Culvert		2	5.00			0.45	0.23	1.04	
							Total Qty	13.41	Cum

Consultant

Assistant Engineer

Assistant Executive Engineer

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Work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in Jyatrayanapura Sub Division

Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Measurement Recorded on									
KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)									
For New Culvert		2	7.00				0.90	12.60	
Fatima layout		2	7.00				0.90	12.60	
Fatima layout									
							Total Qty	25.20	
							Qty Limited to	22.40	Sqm

Consultant

Assistant Engineer

21/10/2019

Assistant Executive Engineer

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Measurements

Work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in Narayanapura Sub Division

Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Measurement Recorded on									
KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs. with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum. machine mixed. concrete laid in layers not exceeding 15 cms. thick. well compacted. in foundation and plinth. including cost of all materials. labour. HOM of machinery. curing complete as per specifications. Specification No. KBS 4.1. 4.2. (P.No.12. I.No.4.6 of PW.P&IWTD									
New culverts									
Coping		2	7.00			0.45	0.10	0.63	
Fatima layout		2	7.00			0.45	0.10	0.63	
Fatima layout		2	5.00			0.45	0.10	0.45	
Raising of Old Culvert		2	5.00			0.45	0.10	0.45	
							Total Qty	2.16	
							Qty Limited to	1.68	Cum

CQPC
22/10/2019

Scanned by CamScanner

Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in No.6 Byatrayanapura Sub Division

Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Measurement Recorded on KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)										
Defence Layout										
1st cross road										
0.00	15.00		1	15.00	5.80	5.90	5.85	0.20	17.55	
15.00	30.00		1	15.00	5.90	6.00	5.95	0.20	17.85	
30.00	45.00		1	15.00	4.90	6.00	5.45	0.20	16.35	
45.00	60.00		1	15.00	4.90	5.80	5.35	0.20	16.05	
60.00	75.00		1	15.00	5.80	5.60	5.70	0.20	17.10	
75.00	90.00		1	15.00	5.60	5.40	5.50	0.20	16.50	
90.00	105.50		1	15.50	5.40	5.00	5.20	0.20	16.12	
2nd cross road										
0.00	15.00		1	15.00	5.10	5.00	5.05	0.20	15.15	
15.00	30.00		1	15.00	5.00	4.90	4.95	0.20	14.85	
30.00	45.00		1	15.00	4.90	5.00	4.95	0.20	14.85	
45.00	60.00		1	15.00	5.00	5.00	5.00	0.20	15.00	
60.00	75.00		1	15.00	5.00	4.80	4.90	0.20	14.70	
75.00	90.00		1	15.00	4.80	4.50	4.65	0.20	13.95	
90.00	101.00		1	11.00	4.50	4.20	4.35	0.20	9.57	
3rd A cross road										
0.00	15.00		1	15.00	5.20	4.70	4.95	0.20	14.85	
15.00	30.00		1	15.00	4.70	4.60	4.65	0.20	13.95	
30.00	45.00		1	15.00	4.60	4.90	4.75	0.20	14.25	
45.00	61.00		1	16.00	4.90	4.90	4.90	0.20	15.68	
3rd Cross Road										
0.00	15.00		1	15.00	4.50	4.80	4.65	0.20	13.95	
15.00	30.00		1	15.00	4.80	4.80	4.80	0.20	14.40	
30.00	45.00		1	15.00	4.80	5.40	5.10	0.20	15.30	
45.00	60.00		1	15.00	5.40	5.40	5.40	0.20	16.20	
60.00	75.00		1	15.00	5.40	5.60	5.50	0.20	16.50	
75.00	93.00		1	18.00	5.60	5.70	5.65	0.20	20.34	
Switch factory Road (tanisandra										
0.00	15.00		1	15.00	5.70	6.30	6.00	0.20	18.00	
15.00	30.00		1	15.00	6.30	5.80	6.05	0.20	18.15	
30.00	45.00		1	15.00	5.80	6.40	6.10	0.20	18.30	
45.00	55.00		1	10.00	6.40	4.90	5.65	0.20	11.30	
55.00	70.00		1	13.00	4.70	5.20	4.95	0.20	12.87	
70.00	85.00		1	15.00	5.20	5.30	5.25	0.20	15.75	
85.00	100.00		1	15.00	5.30	6.00	5.65	0.20	16.95	

Consultant

Assistant Engineer 28/10/2019

Assistant Executive Engineer 28/10/2019

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work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in
.6 Byatrayanapura Sub Division

Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Chainage										
Measurement Recorded on										
100.00	105.00		1	5.00	6.00	6.00	6.00	0.20	6.00	
Switch factory cross road										
0.00	15.00		1	15.00	5.20	5.30	5.25	0.20	15.75	
15.00	30.00		1	15.00	5.30	5.50	5.40	0.20	16.20	
30.00	45.00		1	15.00	5.50	5.80	5.65	0.20	16.95	
45.00	55.00		1	10.00	5.80	4.90	5.35	0.20	10.70	
55.00	70.00		1	15.00	4.70	5.20	4.95	0.20	14.85	
								Total Qty	562.78	Cum

in

Consultant

Assistant Engineer

Assistant Executive Engineer

Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in No.6 Byatrayanapura Sub Division

Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Measurement Recorded on										
KSRRB M 400-17. Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)										
Defence Layout										
1st cross road										
0.00	15.00		1	15.00	5.80	5.90	5.85	0.25	21.94	
15.00	30.00		1	15.00	5.90	6.00	5.95	0.25	22.31	
30.00	45.00		1	15.00	4.90	6.00	5.45	0.25	20.44	
45.00	60.00		1	15.00	4.90	5.80	5.35	0.25	20.06	
60.00	75.00		1	15.00	5.80	5.60	5.70	0.25	21.38	
75.00	90.00		1	15.00	5.60	5.40	5.50	0.25	20.63	
90.00	105.50		1	15.50	5.40	5.00	5.20	0.25	20.15	
2nd cross road										
0.00	15.00		1	15.00	5.10	5.00	5.05	0.25	18.94	
15.00	30.00		1	15.00	5.00	4.90	4.95	0.25	18.56	
30.00	45.00		1	15.00	4.90	5.00	4.95	0.25	18.56	
45.00	60.00		1	15.00	5.00	5.00	5.00	0.25	18.75	
60.00	75.00		1	15.00	5.00	4.80	4.90	0.25	18.38	
75.00	90.00		1	15.00	4.80	4.50	4.65	0.25	17.44	
90.00	101.00		1	11.00	4.50	4.20	4.35	0.25	11.96	
3rd A cross road										
0.00	15.00		1	15.00	5.20	4.70	4.95	0.25	18.56	
15.00	30.00		1	15.00	4.70	4.60	4.65	0.25	17.44	
30.00	45.00		1	15.00	4.60	4.90	4.75	0.25	17.81	
45.00	61.00		1	16.00	4.90	4.90	4.90	0.25	19.60	
3rd Cross Road										
0.00	15.00		1	15.00	4.50	4.80	4.65	0.25	17.44	
15.00	30.00		1	15.00	4.80	4.80	4.80	0.25	18.00	
30.00	45.00		1	15.00	4.80	5.40	5.10	0.25	19.13	
45.00	60.00		1	15.00	5.40	5.40	5.40	0.25	20.25	
60.00	75.00		1	15.00	5.40	5.60	5.50	0.25	20.63	
75.00	93.00		1	18.00	5.60	5.70	5.65	0.25	25.43	
Switch factory Road (tanisandra										
0.00	15.00		1	15.00	5.70	6.30	6.00	0.25	22.50	
15.00	30.00		1	15.00	6.30	5.80	6.05	0.25	22.69	
30.00	45.00		1	15.00	5.80	6.40	6.10	0.25	22.88	
45.00	55.00		1	10.00	6.40	4.90	5.65	0.25	14.13	
57.00	70.00		1	13.00	4.70	5.20	4.95	0.25	16.09	

Consultant

Assistant Engineer 12/11/2019

Assistant Executive Engineer 12/11/2019

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Name of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in Sub Division Byatrayanapura Sub Division

Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Chainage										
Measurement Recorded on										
70.00	85.00		1	15.00	5.20	5.30	5.25	0.25	19.69	
85.00	100.00		1	15.00	5.30	6.00	5.65	0.25	21.19	
100.00	105.00		1	5.00	6.00	6.00	6.00	0.25	7.50	
Switch factory cross road										
0.00	15.00		1	15.00	5.20	5.30	5.25	0.25	19.69	
15.00	30.00		1	15.00	5.30	5.50	5.40	0.25	20.25	
30.00	45.00		1	15.00	5.50	5.80	5.65	0.25	21.19	
45.00	55.00		1	10.00	5.80	4.90	5.35	0.25	13.38	
55.00	70.00		1	15.00	4.70	5.20	4.95	0.25	18.56	
								Total Qty	703.48	Cum

in

Consultant

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

Work :- Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in Bhattarayanapura Sub Division

Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Chainage										
Measurement Recorded on										
KSRRB M 500-6. Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161.1 No.21.6 of PW.P&IWTD SR 2016-17)										
Defence Layout										
1st cross road										
0.00	15.00		1	15.00	5.80	5.90	5.85		87.75	
15.00	30.00		1	15.00	5.90	6.00	5.95		89.25	
30.00	45.00		1	15.00	4.90	6.00	5.45		81.75	
45.00	60.00		1	15.00	4.90	5.80	5.35		80.25	
60.00	75.00		1	15.00	5.80	5.60	5.70		85.50	
75.00	90.00		1	15.00	5.60	5.40	5.50		82.50	
90.00	105.50		1	15.50	5.40	5.00	5.20		80.60	
2nd cross road										
0.00	15.00		1	15.00	5.10	5.00	5.05		75.75	
15.00	30.00		1	15.00	5.00	4.90	4.95		74.25	
30.00	45.00		1	15.00	4.90	5.00	4.95		74.25	
45.00	60.00		1	15.00	5.00	5.00	5.00		75.00	
60.00	75.00		1	15.00	5.00	4.80	4.90		73.50	
75.00	90.00		1	15.00	4.80	4.50	4.65		69.75	
90.00	101.00		1	11.00	4.50	4.20	4.35		47.85	
3rd A cross road										
0.00	15.00		1	15.00	5.20	4.70	4.95		74.25	
15.00	30.00		1	15.00	4.70	4.60	4.65		69.75	
30.00	45.00		1	15.00	4.60	4.90	4.75		71.25	
45.00	61.00		1	16.00	4.90	4.90	4.90		78.40	
3rd Cross Road										
0.00	15.00		1	15.00	4.50	4.80	4.65		69.75	
15.00	30.00		1	15.00	4.80	4.80	4.80		72.00	
30.00	45.00		1	15.00	4.80	5.40	5.10		76.50	
45.00	60.00		1	15.00	5.40	5.40	5.40		81.00	
60.00	75.00		1	15.00	5.40	5.60	5.50		82.50	
75.00	93.00		1	18.00	5.60	5.70	5.65		101.70	
Switch factory Road (tanisandra										
0.00	15.00		1	15.00	5.70	6.30	6.00		90.00	
15.00	30.00		1	15.00	6.30	5.80	6.05		90.75	
30.00	45.00		1	15.00	5.80	6.40	6.10		91.50	
45.00	55.00		1	10.00	6.40	4.90	5.65		56.50	
57.00	70.00		1	13.00	4.70	5.20	4.95		64.35	
69.00	85.00		1	15.00	5.20	5.30	5.25		78.75	
85.00	100.00		1	15.00	5.30	6.00	5.65		84.75	
100.00	105.00		1	5.00	6.00	6.00	6.00		30.00	

Assistant Engineer

Assistant Executive Engineer

Pre- Measurements

Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in no.6 Byatrayanapura Sub Division

Q No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded on Switch factory cross road										
	0.00	15.00		1	15.00	5.20	5.30	5.25		78.75	
	15.00	30.00		1	15.00	5.30	5.50	5.40		81.00	
	30.00	45.00		1	15.00	5.50	5.80	5.65		84.75	
	45.00	55.00		1	10.00	5.80	4.90	5.35		53.50	
	55.00	70.00		1	15.00	4.70	5.20	4.95		74.25	
									Total Qty	2813.90	Sqm

26/11/2019

Consultant

Assistant Engineer

26/11/2019

Assistant Executive Engineer

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Pre- Measurements

Of work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in
no.6 Byatrayanapura Sub Division

Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Measurement Recorded on										
KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW.P&IWTD SR of 2016-17)										
Defence Layout										
1st cross road										
0.00	15.00		1	15.00	5.80	5.90	5.85		87.75	
15.00	30.00		1	15.00	5.90	6.00	5.95		89.25	
30.00	45.00		1	15.00	4.90	6.00	5.45		81.75	
45.00	60.00		1	15.00	4.90	5.80	5.35		80.25	
60.00	75.00		1	15.00	5.80	5.60	5.70		85.50	
75.00	90.00		1	15.00	5.60	5.40	5.50		82.50	
90.00	105.50		1	15.50	5.40	5.00	5.20		80.60	
2nd cross road										
0.00	15.00		1	15.00	5.10	5.00	5.05		75.75	
15.00	30.00		1	15.00	5.00	4.90	4.95		74.25	
30.00	45.00		1	15.00	4.90	5.00	4.95		74.25	
45.00	60.00		1	15.00	5.00	5.00	5.00		75.00	
60.00	75.00		1	15.00	5.00	4.80	4.90		73.50	
75.00	90.00		1	15.00	4.80	4.50	4.65		69.75	
90.00	101.00		1	11.00	4.50	4.20	4.35		47.85	
3rd A cross road										
0.00	15.00		1	15.00	5.20	4.70	4.95		74.25	
15.00	30.00		1	15.00	4.70	4.60	4.65		69.75	
30.00	45.00		1	15.00	4.60	4.90	4.75		71.25	
45.00	61.00		1	16.00	4.90	4.90	4.90		78.40	
3rd Cross Road										
0.00	15.00		1	15.00	4.50	4.80	4.65		69.75	
15.00	30.00		1	15.00	4.80	4.80	4.80		72.00	
30.00	45.00		1	15.00	4.80	5.40	5.10		76.50	
45.00	60.00		1	15.00	5.40	5.40	5.40		81.00	
60.00	75.00		1	15.00	5.40	5.60	5.50		82.50	
75.00	93.00		1	18.00	5.60	5.70	5.65		101.70	
Switch factory Road (tanisandra										
0.00	15.00		1	15.00	5.70	6.30	6.00		90.00	
15.00	30.00		1	15.00	6.30	5.80	6.05		90.75	
30.00	45.00		1	15.00	5.80	6.40	6.10		91.50	
45.00	55.00		1	10.00	6.40	4.90	5.65		56.50	
57.00	70.00		1	13.00	4.70	5.20	4.95		64.35	
70.00	85.00		1	15.00	5.20	5.30	5.25		78.75	
85.00	100.00		1	15.00	5.30	6.00	5.65		84.75	
100.00	105.00		1	5.00	6.00	6.00	6.00		30.00	

Consultant

Assistant Engineer 26/11/2019

Assistant Executive Engineer 26/11/2019

26/11/2019

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Pre- Measurements

Work : - Asphalting to Roads and Improvements to Drains at Defence Layout and Ashrama Road in No.6 Byatrayanapura Sub Division

Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Chainage										
Measurement Recorded on										
Switch factory cross road										
0.00	15.00		1	15.00	5.20	5.30	5.25		78.75	
15.00	30.00		1	15.00	5.30	5.50	5.40		81.00	
30.00	45.00		1	15.00	5.50	5.80	5.65		84.75	
45.00	55.00		1	10.00	5.80	4.90	5.35		53.50	
55.00	70.00		1	15.00	4.70	5.20	4.95		74.25	
								Total Qty	2813.90	Sqm

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REJUS CONSULTANTS Consultants

Assistant Engineer

Assistant Executive Engineer

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